ABSTRACT OF THE DISCLOSURE

A magnetic disk array device is equipped with ATA magnetic disks, at least one disk array controller for controlling the ATA magnetic disks, and at least one processing offload function module provided between the disk array controller and the ATA magnetic disk. The disk array controller outputs one of a standard processing FC command for performing a standard processing such as a read or write processing, and an offload processing FC command for performing a vendor unique offload processing. The processing offload function module performs a command mapping for the standard processing FC command and issues to the ATA magnetic disk a corresponding ATA command, and prepares a group of ATA commands for the offload processing FC command for optimum processing in an ATA protocol.

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